DO NOT ENTER Application No. 10/532,033 PEZ 04/27/2009

AMENDMENT dated April 16, 2009
Response to the Office Action of February 25, 2009

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

- (Canceled)
- 2. (Currently Amended) The method of claim 16 wherein:

R¹ is selected from the group consisting of hydrogen, substituted or unsubstituted alkyl, substituted or unsubstituted alkenyl, and substituted or unsubstituted alkynyl, wherein when R¹ is substituted alkyl, substituted alkenyl, or substituted alkynyl, the substitutent(s) thereof is (are) selected from the group consisting of alkoxy, haloalkoxy, alkylthiol, halogen, unsubstituted phenyl, and phenyl substituted with a moiety selected from the group consisting of alkyl, haloalkyl, alkoxy, haloalkoxy, alkylthiol, and halogen;

R² and R³ are independently selected from the group consisting of R¹, alkoxy, alkoxyalkyl, benzyloxy, cyano, and alkylcarbonyl;

R4 is selected from the group consisting of:

(a) substituted or unsubstituted alkyn, substituted or unsubstituted alkenyl, and substituted or unsubstituted alkynyl, wherein when R⁴ is substituted alkyl, substituted alkenyl, or substituted alkynyl, the substituent(s) thereof is (are) selected from the group consisting of an alkoxy, haloalkoxy, alkylthiol, a halogen, unsubstituted phenyl, and phenyl substituted with a

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moiety selected from the group consisting of alkyl, haloalkyl, alkoxy, haloalkoxy, alkylthiol, and halogen;

- (b) hydroxyl;
- (c) halogen;
- (d) cyano;
- (e) acyl, amine, monoalkylamine, dialkylamine, unsubstituted phenyl, and phenyl substituted with a moiety selected from the group consisting of alkyl, haloalkyl, alkoxy, haloalkoxy, and alkylthiol;

m = 0 or 1:

when it is present, R⁵ is a group having the same definition as that given above for R⁴,

A is a direct bond, -O-, -S-, -NR⁵-, -CHR⁷- or -O-CHR⁷-,

each R⁹, when any are present, is selected from the group consisting of hydrogen, substituted or unsubstituted alkyl, substituted or unsubstituted alkynyl, wherein when an R⁹ is a substituted alkyl, a substituted alkenyl, or a substituted alkynyl, the substitutent(s) substitutent(s) thereof is (are) selected from the group consisting of alkoxy, haloalkoxy, alkylthiol, halogen, unsubstituted phenyl, and phenyl substituted with a moiety selected from the group consisting of alkyl, haloalkyl, alkoxy, haloalkoxy, alkylthiol, and halogen;

 R^7 is selected from the group consisting of R^9 ; hydroxyl; halogen; cyano; acyl; alkoxy; haloalkoxy; and alkylthiol;

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(a) hydroxyl;(b) halogen;(c) cyano;(d) acyl;(e) amine:

A is linked to the 4-position of the benzene ring M; and

 R^{6} is a substituted or unsubstituted phenyl or an aromatic heterocycle which when R^{6} is a substituted phenyl or substituted aromatic heterocycle, the substituent(s) thereof is (are) selected from the group consisting of

(-)
(f) alkylamine;
(g) dialkylamine;
(h) alkyl;
(i) haloalkyl;
(j) RaO-alkyl;
(k) acyloxyalkyl;
(l) cyanooxyalkyl;
(m) alkoxy;
(n) haloalkoxy;
(o) alkylthiol;

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- (p) cycloalkyl unsubstituted or substituted with a moiety selected from the group consisting of alkyl, haloalkyl, alkoxy, haloalkoxy, and alkylthiol; and
- (q) benzyl unsubstituted or substituted with a moiety selected from the group consisting of alkyl, haloalkyl, alkoxy, haloalkoxy, and alkylthiol.
- 3. (Currently Amended) The method of claim 16 wherein:

 $R^1 = H$

wherein R^2 , R^3 , R^4 , and R^5 are independently selected from the group consisting of C_1 - C_6 alkyl and R^5 is linked to the carbon at C_5 of the benzyl ring M, with m=1;

A is linked to the carbon at C4 of the benzyl ring M and represents -O-; and

R⁶ is unsubstituted aryl or aryl substituted with at least one moiety selected from the group consisting of alkyl and halogen.

 (Previously Presented) The method of claim 3 wherein compound (I) is selected from the group consisting of

N-ethyl-N-methyl-N'-[4-(4-

chloro-3-trifluoromethylphenoxy)-2,5-dimethylphenyl]imidoformamide,

N-ethyl-N-methyl-N'-[4-(4-

fluoro-3-trifluoromethylphenoxy)-2,5-dimethylphenyl]imidoformamide,

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N-ethyl-N-methyl-N'-[4-(4-

cyano-3-trifluoromethylphenoxy)-2,5-dimethylphenyl]imidoformamide,
and the possible tautomers and salts that are pharmaceutically acceptable of these compounds (I).

- 5. (Currently Amended) The method of claim 16 wherein the medicament further comprises at least one other antifungal compound (II) selected from the group consisting of azoles: polyenes; allylamines and benzylamines; thiocarbamates; candins; nucleoside analogues; sordarins; polyoxines and nikkomycins; pradimicins; benanomycins; aureobasidins; UK-2A or UK-3A; and cationic peptides; taken alone or as a mixture, and their possible tautomers and salts and their lipid or liposomal formulations that are pharmaceutically acceptable.
- (Canceled)
- 7. (Currently Amended) The method of claim [[5]] 17 wherein the mass ratio (I/II) is 0.02 ≤ I/II ≤ 50.
- (Currently Amended) The method of claim [[5]] 17 wherein the compound (I)/compound
 (II) ratio is chosen so as to produce a synergistic effect.

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- (Previously Presented) The method of claim 8 wherein the compound
 (I)/compound (II) ratio is between 0.5 and 10.
- 10. (Previously Presented) The method of claim 16 wherein the medicament further comprises at least one pharmaceutically acceptable excipient.
- (Currently Amended) The method of claim [[5]] 2 wherein the medicament comprises from 0.5 to 99% of the combination of compound (I) and compound (II).
- 12-13. (Canceled)
- (Previously Presented) The method of claim 16 wherein the infection is an Candida albicans infection.
- (Previously Presented) The method of claim 16 wherein the infection is an Aspergillus fumigatus infection.
- (Currently Amended) A method for treating Candida albicans or Aspergillus fumigatus infections in humans or animals comprising administering to a patient in need of such treatment a

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pharmaceutically effective dose of an antifungal medicament comprising at least one compound of formula (I):

wherein:

R¹ is selected from the group consisting of hydrogen, substituted or unsubstituted alkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted alkynyl, and a substituted or unsubstituted carbocyclic or heterocyclic monovalent group;

R² and R³ are independently selected from the group consisting of R¹; a cyano; an acyl;
-OR* or -SR*, wherein R* is selected from the group consisting of a substituted or unsubstituted alkyl, a substituted or unsubstituted alkynyl, and a substituted or unsubstituted carbocyclic or heterocyclic monovalent group, or R² and R³, or R² and R¹ may form together and with the atoms linking them, a substituted or unsubstituted ring;

R⁴ is selected from the group consisting of a substituted or unsubstituted alkyl, a substituted or unsubstituted alkenyl, a substituted or unsubstituted alkynyl, a substituted or

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unsubstituted carbocyclic or heterocyclic monovalent group, hydroxyl, mercapto, azido, nitro, halo, cyano, unsubstituted or substituted acyl, amino, cyanato, thiocyanato, -SF₅, -OR^a, -SR^a, and -Si(R^a)₃;

$$m = 0, 1, 2 \text{ or } 3;$$

the optional R³ group or the optional R³ groups, which may be mutually identical or different, have the same definition as that given above for R⁴;

R6 is an unsubstituted or substituted carbocyclic or heterocyclic group; and

A is selected from the group consisting of a direct bond, -O-, -S(O)-, -NR 9 -, -CR 7 -CR 7 -C-C=C-, -A\frac{1}-, -A\frac{1}-A\frac{1}-, -O-(A\frac{1})_k-O-, -O-(A\frac{1})_k-, -A\frac{1}-, -A\frac{1}-A\frac{1}-, -A\frac{1}O-, -A\frac{1}OO-, -A\frac{1}-OO-, -A\frac{1}-OO-2-, -NR 9 A\frac{2}-, -OA\frac{2}-C(R\frac{7})=C(R\frac{8})-, -S(O)_nA\frac{1}-, -A\frac{1}-A\frac{4}-C(R\frac{8})=N-N=CR\frac{8}-, -A\frac{1}-A\frac{4}-C(R\frac{8})=N-X^2-X^3-, -A\frac{1}-A\frac{4}-A\frac{1}-A\frac{1}-A\frac{4}-A\frac{1}-A\frac{1}-A\frac{4}-A\frac{1}-

wherein

$$n = 0, 1 \text{ or } 2,$$

$$k = 1 \text{ to } 9$$
.

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$$A^{1} = -CHR^{7}$$
,
 $A^{2} = -C(=X)$ -,
 $A^{3} = -C(R^{8}) = N - O$ -,
 $A^{4} = -O - N = C(R^{8})$ -,
 $X = O$ or S .

X1 = O, S, NR9 or a direct bond,

 $X^2 = O$, NR^9 or a direct bond,

 X^3 = hydrogen, -C(=O)-, -SO₂- or a direct bond,

each R² is independently selected from the group consisting of unsubstituted or substituted alkyl, substituted or unsubstituted cycloalkyl, substituted or unsubstituted phenyl, hydrogen, halogen, cyano, and acyl;

each R⁸ is independently selected from the group consisting of alkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted alkynyl, substituted or unsubstituted alkoxy, substituted or unsubstituted alkylthio, a substituted or unsubstituted carbocyclic or heterocyclic monovalent group, and hydrogen;

each R⁹ is independently selected from the group consisting of unsubstituted or substituted alkyl, a substituted or unsubstituted monovalent carbocyclic or heterocyclic group, and acyl; or two R⁹ groups may form together, and with the atoms linking them, a 5-7-membered ring;

the group represented on the right side of the bond A is linked to R6;

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or -A-R⁶ and R⁵ form together with the benzene ring M, a system of unsubstituted or substituted condensed rings;

and optical and/or geometric isomers, tautomers and salts of (I) with an acid or a base that are pharmaceutically acceptable;

and mixtures thereof.

17. (Previously Presented) The method of claim 5 wherein compound (I) is selected from the group consisting of N-ethyl-N-methyl-N'-[4-(4-chloro-3-trifluoromethylphenoxy)-2,5-dimethylphenyl]imidoformamide and N-ethyl-N-methyl-N'-[4-(4-cyano-3-trifluoromethylphenoxy)-2,5-dimethylphenyl]imidoformamide and compound (II) is selected from the group consisting of fluconazole and itraconazole.

18-19. (Canceled)

- 20. (New) The method of claim 11 wherein the infection is an Candida albicans infection.
- (New) The method of claim 11 wherein the infection is an Aspergillus fumigatus infection.